

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1 ~ 154 (cancelled)

Claim 155. (previously presented) A remotely controlled and monitored spa, comprising:

- A) a spa controller,
- B) a interface signal converter, electrically connected to said spa controller, and
- C) a remote computer connected to said interface signal converter via a communications link, wherein said remote computer is used to download software to said spa controller,

wherein said interface signal converter converts communication signals transferred from said remote computer via said communications link and directs the converted signals to said spa controller, and wherein said interface signal converter converts signals from said spa controller to be communicated to said remote computer via said communications link.

Claim 156. (previously presented) The spa as in Claim 155, wherein said software comprises updates to software already installed on said spa controller.

Claim 157. (previously presented) The spa as in Claim 155, wherein said remote computer monitors spa controller software installed on said spa controller, wherein said software downloaded from said remote computer to said spa controller comprises updates to said spa controller software installed on said spa controller.

Claim 158. (previously presented) The spa as in Claim 155, wherein said interface signal converter comprises an RS transceiver.

Claim 159. (previously presented) The spa as in Claim 158, wherein said RS transceiver is an RS-485 transceiver.

Claim 160. (previously presented) The spa as in Claim 155, wherein said interface signal converter comprises an IR transceiver.

Claim 161. (previously presented) The spa as in Claim 155, wherein said interface signal converter comprises an RF transceiver.

Claim 162. (previously presented) The spa as in Claim 155, wherein said interface signal converter is capable of transceiving at least two different types of communication signals.

Claim 163. (previously presented) The spa as in Claim 155, wherein said at least two different types of communication signals is an RS differential signal and an IR signal.

Claim 164. (previously presented) The spa as in Claim 155, wherein said interface signal converter is removably attached to said spa controller.

Claim 165. (previously presented) The spa as in Claim 164, wherein said spa controller defines a cavity, wherein said interface signal converter is removably attached to said spa controller via said cavity.

Claim 166. (previously presented) The spa as in Claim 155, wherein said interface signal converter is rigidly attached to said spa controller.

Claim 167. (previously presented) The spa as in Claim 155, wherein said interface signal converter is integrated into said spa controller.

Claim 168. (previously presented) The spa as in Claim 155, wherein said remote computer is connected to said interface signal converter via a communications wire.

Claim 169. (previously presented) The spa as in Claim 155, wherein said communications link is a wireless communications link.

Claim 170. (previously presented) The spa as in Claim 155, further comprising a second remote computer for sending commands to said spa controller and receiving data from said spa controller, wherein said second remote computer is connected to said spa controller via a computer network.

Claim 171. (previously presented) The spa as in Claim 170, wherein said computer network is the Internet.

Claim 172. (previously presented) The spa as in Claim 155, wherein said communications link is the Internet.

Claim 173. (previously presented) The spa as in Claim 155, wherein said remote computer is controlled by the spa owner.

Claim 174. (previously presented) The spa as in Claim 155, wherein said remote computer is controlled by the spa dealer.

Claim 175. (previously presented) The spa as in Claim 155, wherein said remote computer is controlled by the spa manufacturer.

Claim 176. (previously presented) The spa as in Claim 155, wherein said remote computer is controlled by the spa service technician.

Claim 177. (previously presented) The spa as in Claim 155, wherein said remote computer is controlled by the spa controller manufacturer.

Claim 178. (previously presented) The spa as in Claim 155, wherein said communications link comprises a computer network.

Claim 179. (previously presented) The spa as in Claim 178, wherein said computer network is the Internet.

Claim 180. (previously presented) The spa as in Claim 178, wherein said computer network is a LAN.

Claim 181. (previously presented) The spa as in Claim 155, wherein said remote computer is a PDA.

Claim 182. (previously presented) The spa as in Claim 155, wherein said remote computer is a cellular phone.

Claim 183. (previously presented) The spa as in Claim 155, further comprising a spa skirt wherein said remote computer is located underneath said spa skirt.

Claim 184. (previously presented) The spa as in Claim 182, wherein said remote computer is connected to a computer network.

Claim 185. (previously presented) The spa as in Claim 155, wherein said remote computer is used to monitor and control the spa.

Claim 186. (previously presented) A remotely controlled and monitored spa, comprising:

A) a spa controller means,

B) a interface signal converter means, electrically connected to said spa controller means, and

C) a remote computer means connected to said interface signal converter means via a communications link, wherein said remote computer means is used to download software to said spa controller means,

wherein said interface signal converter means converts communication signals transferred from said remote computer means via said communications link, and

wherein said interface signal converter means converts signals from said spa controller means to be communicated to said remote computer means via said communications link.

Claim 187. (previously presented) A remotely controlled and monitored spa, comprising:

- A) a spa controller,
- B) a interface signal converter, electrically connected to said spa controller, and
- C) a remote computer connected to said interface signal converter via a communications link, wherein data comprising a record of errors is automatically downloaded from said spa controller to said remote computer,

wherein said interface signal converter converts communication signals transferred from said remote computer via said communications link and directs the converted signals to said spa controller, and wherein said interface signal converter converts signals from said spa controller to be communicated to said remote computer via said communications link.

Claim 188. (previously presented) The remotely controlled and monitored spa as in Claim 187, wherein repairs are made to said remote computer based on said record of errors.

Claim 189. (previously presented) The spa as in Claim 187, wherein said remote computer is a troubleshooting tool that comprise a microprocessor and an error indicator.

Claim 190. (previously presented) The spa as in Claim 187, wherein said communications link is a wireless communications link.

Claim 191. (previously presented) The spa as in Claim 187, wherein said remote computer is a cellular phone.

Claim 192. (previously presented) The spa as in Claim 187, wherein said interface signal converter is integrated into said spa controller.

Claim 193. (previously presented) The spa as in Claim 187, wherein said interface signal converter comprises an IR transceiver.

Claim 194. (previously presented) The remote controlled and monitored spa as in Claim 187, wherein said record of errors comprises the number of times an error has occurred.

Claim 195. (currently amended) A remotely controlled and monitored spa, comprising:

A) a spa controller,

B) a wireless communications link, and

C) a hand-portable remote computer connected to said spa controller via said wireless communications link,

wherein said remote computer is used to download software to said spa controller.

Claim 196. (currently amended) The spa as in Claim 195, wherein said hand-portable remote computer is a PDA.

Claim 197. (currently amended) The spa as in Claim 195, wherein said hand-portable remote computer is a cellular phone.

Claim 198. (currently amended) The spa as in Claim 195, wherein said hand-portable remote computer comprises an interface signal converter, wherein said interface signal converter converts communication signals transferred from said hand-portable remote computer via said wireless communications link and directs the converted signals to said spa controller, and wherein said interface signal converter converts signals from said spa controller to be communicated to said hand-portable remote computer via said wireless communications link.